

## EAST Search History

| Ref # | Hits  | Search Query                                                                                                                           | DBs                                                            | Default Operator | Plurals | Time Stamp          |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------|---------|---------------------|
| S1    | 11759 | (leadframe or (lead adj frame) or foil with (plastic adj (film or layer))                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>20:11 |
| S2    | 2952  | (leadframe or (lead adj frame) or foil with (diode or photodiode)                                                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>20:13 |
| S3    | 12    | S1 and S2                                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>20:13 |
| S4    | 6     | @ad <= "20030604" and S3                                                                                                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>20:49 |
| S5    | 4     | ((("6523446") or ("5399416")).PN.                                                                                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/02/16<br>20:53 |
| S6    | 57309 | (leadframe or (lead adj frame) or foil with (multi-layer or multilayer or (multi adj layer) or laminate or laminated or multi-layered) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>21:13 |
| S7    | 4235  | S1 and S6                                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/02/16<br>21:14 |
| S8    | 3118  | @ad <= "20030604" and S7                                                                                                               | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/02/16<br>21:15 |

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| S9  | 775    | S8 and package                                                                                                                                                                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/16<br>21:17 |
| S10 | 519034 | (die or chip or component or IC or (integrated adj circuit) or (semiconductor adj device) or diode or photodiode) with (encapsulant or encapsulat\$4 or sealant or seal\$3 or mold\$3) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/16<br>21:24 |
| S11 | 141    | S9 and S10                                                                                                                                                                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/16<br>21:25 |
| S12 | 141    | S11 and (plastic adj (film or layer))                                                                                                                                                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/16<br>21:45 |
| S13 | 43     | (leadframe or (lead adj frame) or foil) with (plastic adj (film or layer)) with punch \$4                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/17<br>21:37 |
| S14 | 39     | @ad <= "20030604" and S13                                                                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/17<br>21:38 |
| S15 | 43     | (leadframe or (lead adj frame) or foil) with (plastic adj (film or layer)) with punch \$4                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/17<br>21:40 |
| S16 | 39     | @ad <= "20030604" and S15                                                                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/02/17<br>21:41 |
| S17 | 4      | ("3781596").PN.                                                                                                                                                                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/02/17<br>23:20 |

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| S18 | 2322   | (multi-layer or (multi adj layer) or multilayer or laminat \$3) with (leadframe or lead-frame or (lead adj frame))                                                                                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/09/23<br>01:01 |
| S19 | 1685   | @ad <= "20030604" and S18                                                                                                                                                                                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/23<br>01:02 |
| S20 | 8322   | (leadframe or lead-frame or (lead adj frame)) with (pattern \$3 or opening or groove or recess or vias)                                                                                                              | US-PGPUB;<br>USPAT                                             | OR | ON  | 2008/09/23<br>01:05 |
| S21 | 361    | S19 and S20                                                                                                                                                                                                          | US-PGPUB;<br>USPAT                                             | OR | ON  | 2008/09/23<br>01:05 |
| S22 | 210685 | ((multi-layer or (multi adj layer) or multilayer or laminat \$3) or (leadframe or lead-frame or (lead adj frame))) with (plastic or ceramic or polymer or synthetic or semisynthetic)                                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/09/23<br>01:08 |
| S23 | 189    | S21 and S22                                                                                                                                                                                                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/09/23<br>01:08 |
| S24 | 13554  | ((257/786) or (257/784) or (257/734) or (257/736) or (257/666) or (257/667) or (257/668) or (257/669) or (257/676) or (257/672) or (257/675) or (257/676) or (257/677) or (257/690) or (257/701) or (257/713)).CCLS. | US-PGPUB;<br>USPAT                                             | OR | OFF | 2008/09/23<br>01:47 |

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| S25 | 532    | S24 and ((multi-layer or (multi adj layer) or multilayer or laminat \$3) with (leadframe or lead-frame or (lead adj frame) or frame))                                                                                                                               | US-PGPUB;<br>USPAT                                             | OR | ON | 2008/09/23<br>01:48 |
| S26 | 364    | @ad <= "20030604" and S25                                                                                                                                                                                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/23<br>01:49 |
| S27 | 280    | S26 not S23                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/23<br>01:49 |
| S28 | 30762  | (leadframe or lead-frame or (lead adj frame) or lead or metal) with ((insulat \$4 or coating or adhesive or polymer or plastic or synthetic or semisynthetic or polymic or polyimide) adj (layer or film)) with (pattern\$4 or opening or groove or recess or vias) | US-PGPUB;<br>USPAT                                             | OR | ON | 2009/07/06<br>08:08 |
| S29 | 311435 | (chip or component or die or IC or (integrated adj circuit) or element or diode or photodiode or photo-diode) with (wiring or wire or wiring-bond\$3)                                                                                                               | US-PGPUB;<br>USPAT                                             | OR | ON | 2009/07/06<br>08:10 |
| S30 | 10079  | S28 and S29                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT                                             | OR | ON | 2009/07/06<br>08:11 |
| S31 | 5157   | @ad <= "20030604" and S30                                                                                                                                                                                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/06<br>08:11 |
| S32 | 306199 | "257"/\$.ccls.                                                                                                                                                                                                                                                      | US-PGPUB;<br>USPAT                                             | OR | ON | 2009/07/06<br>08:12 |
| S33 | 3886   | S31 and S32                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT                                             | OR | ON | 2009/07/06<br>08:14 |

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| S34 | 1483 | S33 and (radiat\$4 or<br>emitt\$4 or emission<br>or radiation-emit\$4 or<br>diode or photodiode<br>or photo-diode) | US-PGPUB;<br>USPAT | OR | ON | 2009/07/06<br>08:16 |
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**7/ 6/ 09 9:34:09 AM**

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